PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

11543-06-228	ACTION		re applicable, item 5 below
International application No. PCT/US05/22071	International filing date (day/) 20 June 2005 (20.06.2005)	nonth/year)	(Earliest) Priority Date (day/month/year) 19 June 2004 (19.06.2004)
Applicant CHONDROGENE, INC			
Basis of the Report With regard to the language, the is the international a translation of the of a translation of the office of translation of the office of translation fully of the office of translation fully office of translation fully office of translation fully office of translation of the office of translation of tr	transmitted to the Internations of a total of	al Burcau. cournent cited in out on the basic hich it was filed mational search disclosed in the	n this report. s of: 1. , which is the language
may, within one month from t	according to Rule 38.2(b), by t		s it appears in Box No. IV. The applicant report, submit comments to this Authority.
= '	applicant. uthority, because the applicant uthority, because this figure bet	failed to suggest	

Form PCT/ISA/210 (first sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

	International application No.
	PCT/US05/22071
_	autiquation of item 2 of first cheet)

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following re	asons:			
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements an extent that no meaningful international search can be carried out, speedfically:	to such			
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule	e 6.4(a).			
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows: Please Sec Continuation Sheet				
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.				
As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees.				
 As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: 				
No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:				
Remark on Protest The additional search fees were accompanied by the applicant's protest and, where applicable payment of a protest fee.				
The additional search fees were accompanied by the applicant's protest but the applicable protest was not paid within the time limit specified in the invitation.	test fee			
No protest accompanied the payment of additional search fees.				

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/22071 CLASSIFICATION OF SUBJECT MATTER IPC(8): C12O 1/00(2006.01); G01N 33/48(2006.01) C12O 1/00(2006.01); G01N 33/48(2006.01) 435/4:702/19 USPC: According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/4: 702/19 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 2003/0104499 A1 (PRESSMAN et al.) 05 June 2003 (05.06.2003), page 9, paragraph 1-5, 8-11, 13-20, 22-28, 0083-0085, page 35, paragraph 0366; page 10 paragraph 0092; page 28, paragraph 0265-31, 33-36, 79, 80 Y 0266; pages 35-36, paragraph 0376; page 14, paragraph 0127; page 30, paragraph 0313-0315. 0304, 0307; page 11, paragraph 0098; page 36, paragraph 0397; page 32, paragraph 0329; 6, 7, 12, 21, 29, 30, 32, page 28, paragraph 0262; page 10, paragraph 0094. 37-78, 81 Y US 2004/0110221 A1 (TWINE et al.) 10 June 2004 (10.06.2004), page 72, paragraph 0599; 6, 7, 21, 29, 30, 51, 52, page 64; paragraph 0513-0514. 62, 69 US 2003/0073083 A1 (TAMAYO et al.) 17 April 2003 (17.04.2003), page 23, paragraph 12.57 0186 Further documents are listed in the continuation of Box C. See patent family annex. later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention Special eategories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "E" earlier application or patent published on or after the international filing date document which may throw doubts on priority elaim(s) or which is cited to establish the publication date of another citation or other special reason (as document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combinati merified) "O" document referring to an oral disclosure, use, exhibition or other means being obvious to a person skilled in the art document published prior to the international filing date but later than the document member of the same natent family

Date of mailing of the international search report

Authorized offic

Telephone No. (571) 272 1690

Commissioner for Patents
P.O. Box 1450
Alexandra, Virginia 22313-1450
Facsimile No. (571) 273-3201
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Mail Stop PCT, Attn: ISA/US

16 March 2006 (16.03.2006) Name and mailing address of the ISA/US

Date of the actual completion of the international search

	International application No.
INTERNATIONAL SEARCH REPORT	PCT/US05/22071
EVIDAMINATION IN DESCRIPTION OF THE PROPERTY O	
BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LAC	KING
This application contains the following inventions or groups of inventions which	
This application contains the following inventions or groups of inventions which concept under PCT Rule 13.1. In order for all inventions to be examined, the app	propriate additional examination fees must be paid.
-	
Group 1, claim(s) 1-36, 79 and 80, drawn to a method of screening molecular ma	rkers by selecting a plurality of markers based on the
molecular marker's ability to discriminate.	
Group 2, claim(s) 37-77 and 81, drawn to a method of identifying classifiers for a	trait by selecting for molecular markers in Tables 1-A-71.
The inventions listed as Groups 1 and 2 do not relate to a single general inventive	concept under PCT Rule 13.1 because, under PCT Rule
13.2, they lack the same or corresponding special technical features for the follow Group 1 has the special technical feature of selecting a plurality of candidate mole	ring reasons:
discriminate between members of different tmits. In contrast, Group 2, has the se	secial technical feature of selecting molecular markers
from Tables 1A-71. Thus the Groups do not share a special technical feature and	do not relate to a single general inventive concept under
PCT Rule 13.1.	
Continuation of B. FIELDS SEARCHED Item 3:	
WEST, Medline, Embase, Biosis Terms: classifier, molecular, marker, population, differential, wald, wolfowitz, ma	ann, whitney, kolmogorov, smirnov, manduchis, database,
combination, array, microarray, PCR, differntial, rank, subspace, bagging, boostir	ng
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